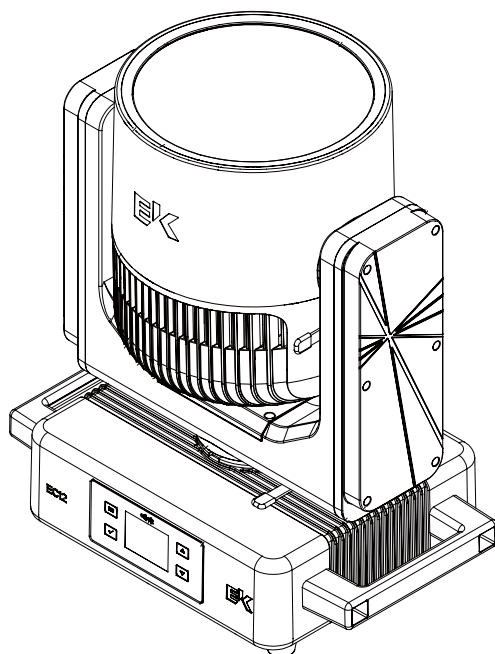




EC12

USER MANUAL

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1 SAFETY INFORMATION	01
2 DIMENSION	02
3 CONTROL	03
4 FIXTURE SPECIFICATIONS	04
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1.Safety Information



WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, user and maintenance of the unit.

General instruction

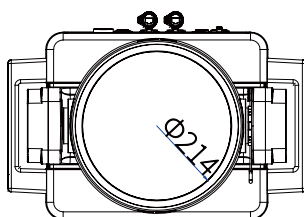
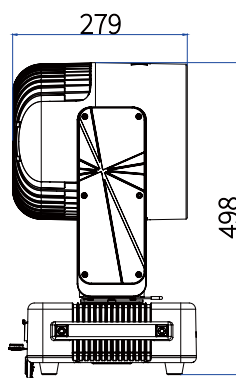
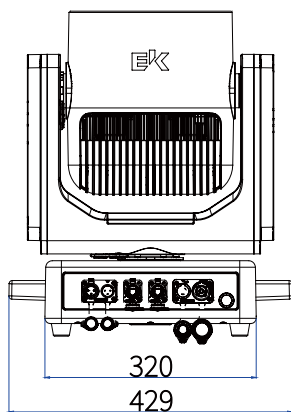
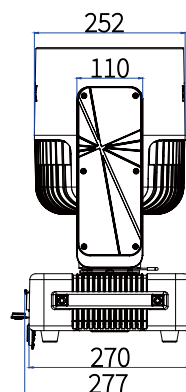
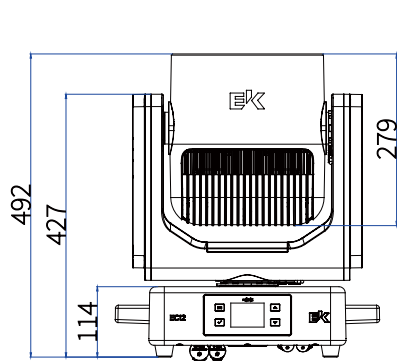
- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE.
- The unit is supplied with hazardous network voltage (230V~). Service should be undertaken by skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to power supply system fitted with efficient earthing (Class I appliance according to standard EN60598-1). It is recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - in places subject to vibrations or bumps;
 - in place with a temperature of over 40 °C.
- Make certain that no Flammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, ensure you dispose of the unit responsibly in accordance with local recycling laws.



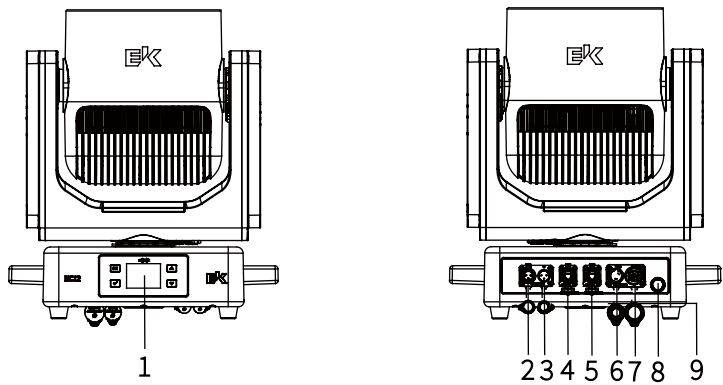
Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the fixture, cut off power from the main supply.
- Always additionally secure the fixture with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any Flammable materials at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e.g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

2DIMENSION



3. CONTROL



1.Control panel

2.5pin DMX In

3.5pin DMX Out

4/5.Ethernet

6.Power In

7.Power Out

8.Breather valve

9.Omega bracket

Menu Display

Function	Illustration	Description	Function
MODE (Left)	Menu Option	Enter Menu	Menu Operation
UP	UP	Scroll Up	Increase Numeric Value
DOWN	DOWN	Scroll Down	Decrease Numeric Value
ENTER (Right)	Confirm	Confirm	Save Setting

Power-on initialization: Menu+up
If you want to flip the display, hold UP + DOWN buttons for 3 seconds to set display orientation.
Without external power source, long press the right button for 3 seconds, enter the menu to set parameters.

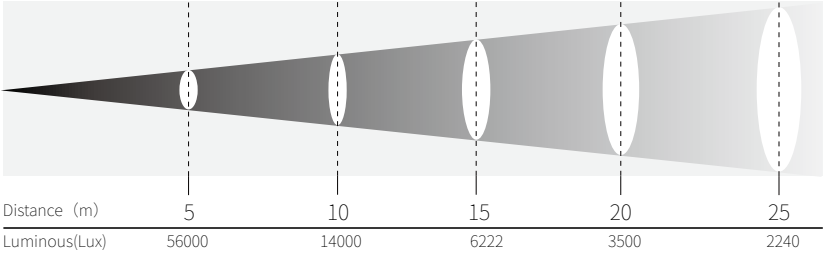
4. FIXTURE SPECIFICATION

4.1 TECHNICAL DATASHEET

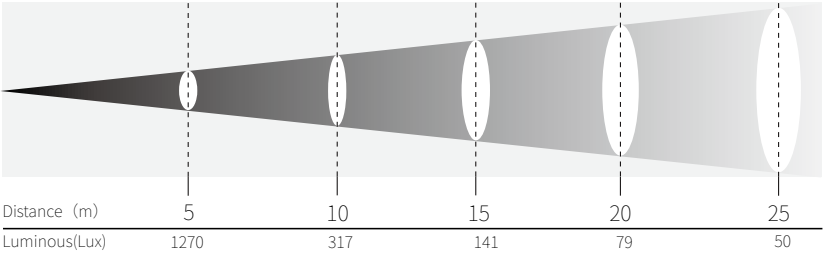
EC12 datasheet	
PHOTOMETRICS	
Light Source	12*50W RGBWW LED
Color Temperature(K)	2800K-10000K
CRI	>93
LED Life	30000H
CCI	0-0.1G
KEY FEATURES	
PAN	540°
TILT	270°
Color System	RGBWW
Zoom	Beam angle 3.8° -33°, Field angle 5.4° -48°
Strobe	1-30Hz
Dimming	0-100% linear dimming, 22Bit
POWER	
Mains	100-240V,50/60Hz
Consumption	230V@750W
Power connections	True1
Power Factor	230V@0.98
Ambient	-10 ~ 45°C
Power supply	Input voltage AC 100 ~ 240VAC (50/60HZ) 1000W
PHYSICAL	
Dimension	429*277*492mm
Weight	Net weight: 20kg
IP Rating	IP66
Cooling	Aluminum alloy heat sink with low noise fan
Housing	Magnesium alloy, matte black finish
Installation	Sit-flat floor mounting, side hanging and flown mounting
CONTROL	
Protocol	DMX512/RDM/sACN/Artnet/Bluetooth/APP/NFC
DMX channel	17CH/36CH/35CH/61CH/84CH/83CH
Data connections	5pin XLR In/Out, linking up to 32pcs
Display	240RGB*320 2.8-inch TFT display
Frequency	600Hz/1.2KHz/2KHz/4KHz/6KHz/25KHz
Built-in programs	YES
Pixel Control	Single control

4.2 Photometrics

Beam Angle: 3.8°



Beam Angle: 33°



5 FIXTURE SETTING

5.1 MENU FUNCTION

Menu(-)					
	Main Menu	Menu level 2	Menu level 3	Menu level 4	Remark
1	SETUP	Basic Engine	Mode	Basic -17	Default: Basic
				Standard -36	
				Advanced -35	
				Basic -61	
			Source	Standard -84	Default:DMX
				Advanced -83	
				DMX	
				Art-Net	
		Pixels Engine	Universe	sACN	Default: 0
				000-255	
				1-512	
				DMX Address	
		Ethernet Setup	Mode	Disabled	Default: 1
				RGBW	
				DMX	
				Art-Net	
2	OPTION	Pan / Tilt	Repeat on DMX	sACN	Default: DMX
				000-255	
				1-512	
				DMX Address	
				2.198.159.207	
				Custom IP Mask	
				255.0.0.0	
				No	
				Both Engine	
				Basic Engine	
				Pixels Engine	
				Default: No	
				Off	Default: Off
				On	
				Off	Default: Off
				On	
				Off	Default: Off
				On	
				Off	Default: On
				On	
				Standard	Default: Standard
				Sequenced	
				0 degree	Default: 270 degree
				90 degrees	
				180 degrees	
				270 degrees	
				0 %	Default: 50%
				12.5 %	
				25 %	
				50 %	
				75 %	
				87.5 %	
				100 %	
				Normal	Default: Fast
				Fast	
		Display	On		Default: 10s
				10s	

5.2 MENU FUNCTION

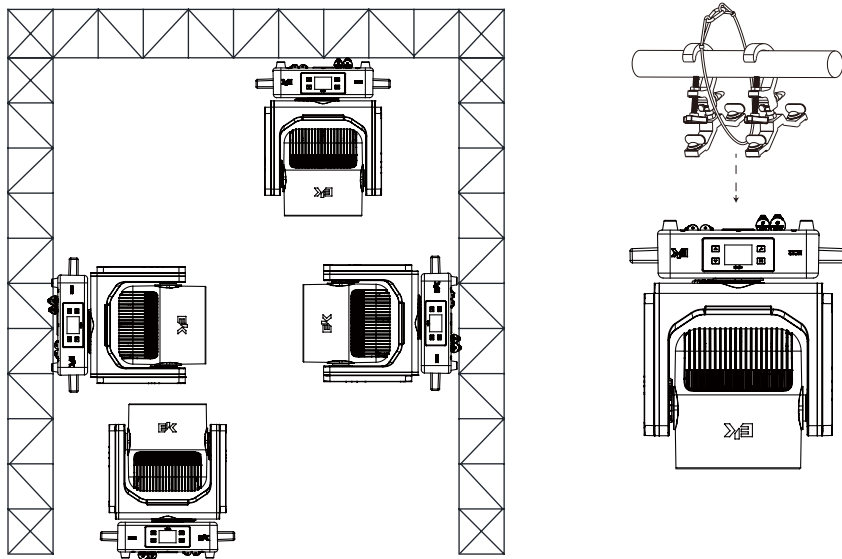
3				20s				
				30s				
			Display Invert	No			Default: Auto	
				Yes				
				Auto				
			Key Lock	No			Default: No (unlock: Up+Down+Up+Down+Enter)	
				Yes				
			Fan Mode	Auto			Default: Auto	
				SLN				
				Constant				
			Power Mode	STD Power			Default: STD Power	
				ECO Power				
			Reverse Mapping	Off			Default: Off	
				On				
			Special Functions	Dimmer Curve	Linear		Default: Exponential	
					Exponential			
					Logarithmic			
					S-Curve S			
				Dimmer Fade	Off		Default: On	
					On			
				RGB Gamma	Gamma 1.0		Default: Gamma 2.2	
					Gamma 1.5			
					Gamma 2.2			
				PWM Frequency	600Hz		Default:2000Hz	
					1200Hz			
			2000Hz					
			4000Hz					
			6000Hz					
				25000Hz				
			Zoom Reposition	On				
				Off				
			Setting	Default Preset	No			
Yes								
User Preset 1	Load preset 1			Yes / No				
	Save to preset 1							
User Preset 2	Load preset 2			Yes / No				
	Save to preset 2							
User Preset 3	Load preset 3			Yes / No				
	Save to preset 3							
3	INFORMATION		System Errors					
			Fixture Hours	Total Hours				
			Led Hours	Total Hours				
			System Version	DISP-V1.0 CTR1-XY:V1.0 CTR2-MOTOR:V1.0				
			Fans Monitor	Led Fan Base Fan	100%			
			Network parameters	IP Address	2.198.159.207			
				IP Mask	255.0.0.0			
4	TEST	Auto	Pan Tilt					

5.3MENU FUNCTION

			Colour				
			Zoom				
			All				
			Reset	No			
			Yes				
		Channel					
5	ADVANCED	Access Code xxxx	Color Calibration	Off			Default: Off
				Factory Calibration			
				Customized Calibration	Red	125-255	
					Green	125-255	
					Blue	125-255	
			White		125-255		
			Calibration	Pan Offset	000-255		
				Tilt Offset	000-255		
				Zoom Offset	000-255		
			Menu Locking	Unlock Code XXXX			Default: 1234
Upload Firmware	Yes / No						

6. INSTALLATION AND CONNECTION

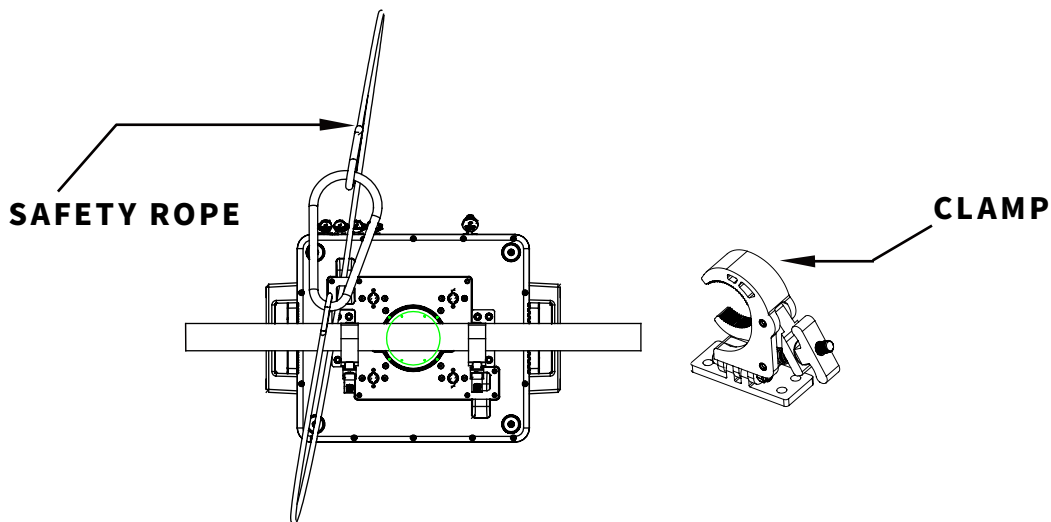
6.1.1 INSTALLATION INSTRUCTION



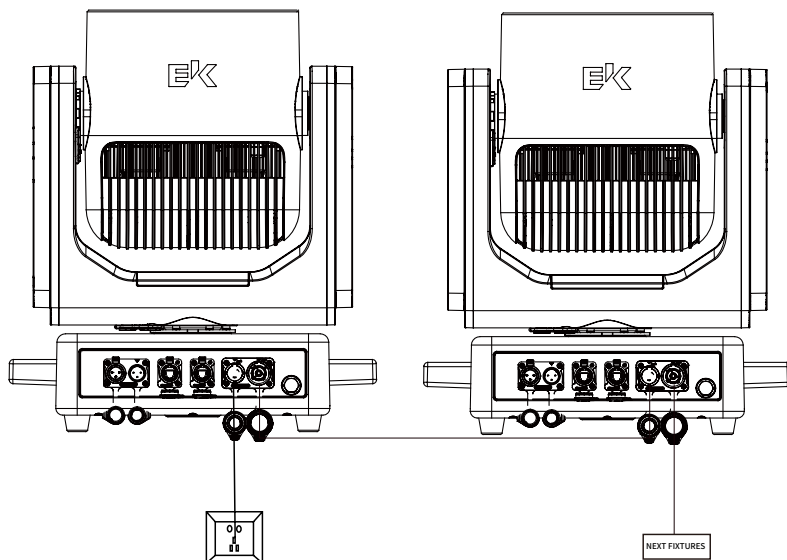
1. Professional installation required. Mount away from walkways, seating areas, or unauthorized access.
2. Never stand directly beneath the fixture during assembly, disassembly, or maintenance.
3. Ensure secure mounting to prevent vibration or slippage during operation.
4. The supporting structure must withstand 10x the fixture's weight without deformation. Always use a safety cable rated for 10x the fixtures weight to prevent falls if the clamp fails.
5. Operational in two positions: Sit-flat floor mounting and flown mounting.
6. EC12 is IP66 (indoor & Outdoor use), ensuring: Dustproof – Prevents significant dust ingress, so that it will not interfere with its normal operation. Water-resistant – Protects against water jets from any direction.

6.1.2 FLOWN MOUNTING

1. During installation, maintain a minimum distance of 0.5 meters between the fixture and any flammable materials .
2. When flown mounting, a safety cable rated for at least 10 times the fixture's weight must be installed.
3. For overhead mounting, the supporting structure must have a load capacity of at least 10 times the fixture's weight.
4. As shown in the diagram, the safety cable must pass through both the fixture's safety cable eyelet and the mounting structure to ensure a secure connection.



6.2 Power Connection



Power connection instruction



Power out



Power In

POWER CONNECTION INSTRUCTION

Notes: For power reasons, using 1.5mm² power cable can link up to 3 units (230V) maximum.



WARNING

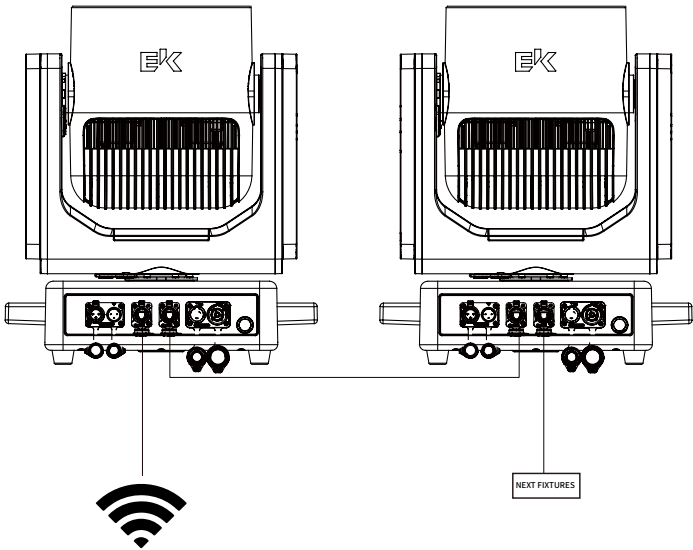
Do not connect more than 3 units with one power cable

Do not use the power cable if the insulation layer has been damaged,

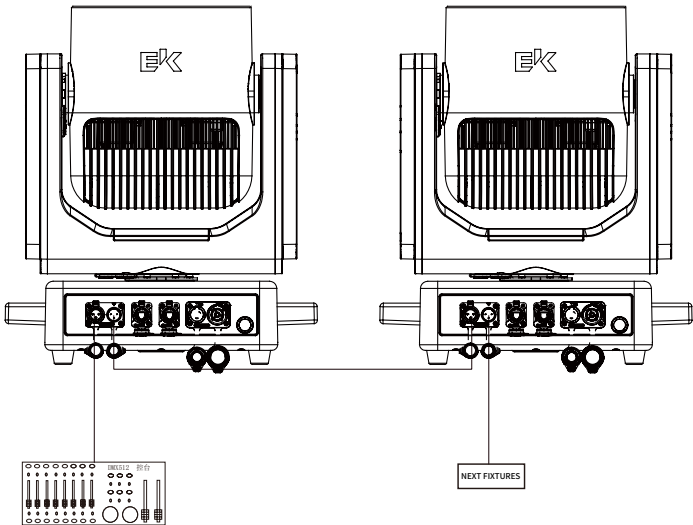
Do not put the power cable on other wires. When the EC12 is not in use or clean, please remove the power cable.

Do not vigorously plug in or drag the power cable.

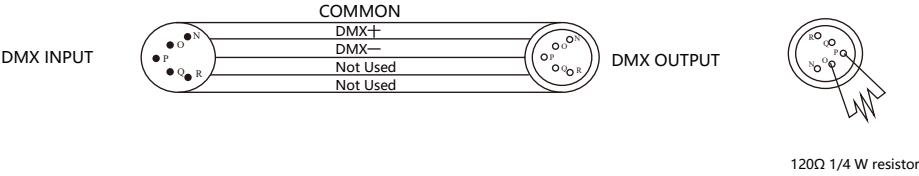
ETHERNET CONNECTION



DMX CONNECTION



DMX CONNECTION



- To minimize signal errors and prevent signal degradation/interference, connect a 120 Ω 1/4W resistor between 2 pins and 3 pins at the last fixture's DMX output.
- Use XLR cables to link fixtures - connect from the output of one fixture to the input of the next. DMX must be wired in series, not parallel.
- Signal integrity is critical due to DMX512's high speed. Damaged cables, poor solder joints, or loose connections can disrupt transmission and cause system failure.
- The DMX connection is bypassed when a unit loses power to maintain signal continuity.
- Each fixture requires a unique address to receive in console commands.
- Always install a terminator at the end of the DMX512 chain to reduce transmission errors.

RELATION BETWEEN DMX AND ADDRESS

MODE	ADDRESS	1ST FIXTURE	2nd FIXTURE	3rd FIXTURE	4th FIXTURE
17CH	001-017	001	018	037	055

Follow above method for subsequent fixtures, calculating starting addressed as indicated

6.4.1 DMX Chart

Basic -17				
1	PAN	000-255		
2	PAN Fine	000-255		
3	TILT	000-255		
4	TILT Fine	000-255		
5	ZOOM	000-255	From wide to narrow beam	
6	Strobe	000-003	Light OFF	
		004-103	Strobe from low (1Hz) to fast (25Hz)	
		104-107	Light ON	
		108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
		208-212	Light ON	
		213-225	Random Slow Strobe	
		226-238	Random Medium Strobe	
		239-251	Random Fast Strobe	
		252-255	Light ON	
7	Dimmer	000-255		
8	Dimmer Fine	000-255		
9	CTO	000-009	OFF	
		010-255	CTO 10000K~2800K	
10	Tint	000-127	Red Shift	
		128-128	Off	
		129-255	Green Shift	
11	Dimmer Fade	000-255	Fast to Slow	
12	FUNCTION	000-003	None	HOLD 3S and Save
		004-007	Auto (Default)	
		008-011	SLN	
		012-015	Constant	
		016-019	Normal Tilt speed	
		020-023	Fast Tilt speed (Default)	
		024-039	None	
		040-043	Linear	
		044-047	Exponential (Default)	
		048-051	Logarithmic	
		052-055	S-Curve	
		056-059	None	
		060-063	Raw color channels gamma 1	
		064-067	Raw color channels gamma 1.5	
		068-071	Raw color channels gamma 2.2 (Default)	
		072-075	Color Calibration Off (Default)	
		076-079	Color Calibration Factory	
		080-083	Color Calibration Customized	
		084-087	None	
		088-091	Reverse Mapping Off (Default)	
		092-095	Reverse Mapping On	

6.4.2 DMX Chart

		096-097	Pixel Map Disabled(Default)	
		098-099	Pixel Map On Circle Mode	
		100-103	Pixel Map On RGBW Mode	
		104-107	Zoom Reposition On(Default)	
		108-111	Zoom Reposition Off	
		112-159	None	
		160-163	Dimmer Fade Off	
		164-167	Dimmer Fade On	
		168-171	PWM frequency 600Hz	
		172-175	PWM frequency 1200Hz	
		176-179	PWM frequency 2000Hz (Default)	
		180-183	PWM frequency 4000Hz	
		184-187	PWM frequency 6000Hz	
		188-191	PWM frequency 25000Hz	
		192-195	Display On	
		196-199	Display Off 10s (Default)	
		200-203	Display Off 20s	
		204-207	Display Off 30s	
		208-253	None	
		254-255	Default function recall	
13	RESET	000-025	No Function	
		026-076	Zoom Reset (Hold 5S)	
		077-127	Pan / Tilt Reset (Hold 5S)	
		128-255	Complete Reset (Hold 5S)	
14	Red	000-255		
15	Green	000-255		
16	Blue	000-255		
17	White	000-255		

Standard-36				
MAIN	1	PAN	000-255	
	2	PAN Fine	000-255	
	3	TILT	000-255	
	4	TILT Fine	000-255	
	5	ZOOM	000-255	From wide to narrow beam
	6	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe

6.4.3 DMX Chart

			226-238 239-251 252-255	Random Medium Strobe Random Fast Strobe Light ON	
	7	Dimmer	000-255		
	8	Dimmer Fine	000-255		
	9	FUNCTION	000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087 088-091 092-095 096-097 098-099 100-103 104-107 108-111 112-159 160-163 164-167 168-171 172-175 176-179 180-183 184-187 188-191 192-195 196-199 200-203 204-207	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve None Raw color channels gamma 1 Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory Color Calibration Customized None Reverse Mapping Off (Default) Reverse Mapping On Pixel Map Disabled(Default) Pixel Map On Circle Mode Pixel Map On RGBW Mode Zoom Reposition On(Default) Zoom Reposition Off None Dimmer Fade Off Dimmer Fade On PWM frequency 600Hz PWM frequency 1200Hz PWM frequency 2000Hz (Default) PWM frequency 4000Hz PWM frequency 6000Hz PWM frequency 25000Hz Display On Display Off 10s (Default) Display Off 20s Display Off 30s	HOLD 3S and Save

6.4.4 DMX Chart

			208-253 254-255	None Default function recall	
	10	RESET	000-025 026-076 077-127 128-255	No Function Zoom Reset (Hold 5S) Pan / Tilt Reset (Hold 5S) Complete Reset (Hold 5S)	
Background	11	Red	000-255		
	12	Red Fine	000-255		
	13	Green	000-255		
	14	Green Fine	000-255		
	15	Blue	000-255		
	16	Blue Fine	000-255		
	17	White	000-255		
	18	White Fine	000-255		
	19	CTO	000-009 010-255	OFF CTO 10000K-2800K	
	20	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
	21	Dimmer Fade	000-255	Fast to Slow	
SHAPE	22	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	23	Dimmer	000-255		
	24	Red	000-255		
	25	Green	000-255		
	26	Blue	000-255		
	27	White	000-255		
	28	CTO	000-004 005-255	OFF CTO 10000K-2800K	
	29	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
	30	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe	

6.4.5 DMX Chart

			239-251 252-255	Random Fast Strobe Light ON	
	31	Dimmer	000-255		
	32	Shape Mode	000-005 006-130 131-255	Normal Static Dynamic	After the pixel engine is turned on, the pixel channel is available when the Shape Mode is set to Normal.
	33	Shape Selection	000-007 008-015 016-023 024-232 233-240 241-248 249-255	Effect 1 Effect 2 Effect 3 ... Effect 31 Effect 32 Effect 33	
	34	Indexing/speed	000-255	Indexing (Static Mode)	
			000-124 125-130 131-255	(Dynamic Mode) Speed from fast to slow, forward Stop Speed from slow to fast, backward	
	35	Fade/Wake	000-005 006-130 131-255	Off Fade (From fast to slow) Wake (From fast to slow)	
	36	Transition	000-255		

Advanced-35					
MAIN	1	PAN	000-255		
	2	PAN Fine	000-255		
	3	TILT	000-255		
	4	TILT Fine	000-255		
	5	ZOOM	000-255	From wide to narrow beam	
	6	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	7	Dimmer	000-255		
	8	Dimmer Fine	000-255		
	9	FUNCTION	000-003 004-007	None Auto (Default)	HOLD 3S and Save

6.4.6 DMX Chart

			008-011	SLN	
			012-015	Constant	
			016-019	Normal Tilt speed	
			020-023	Fast Tilt speed (Default)	
			024-039	None	
			040-043	Linear	
			044-047	Exponential (Default)	
			048-051	Logarithmic	
			052-055	S-Curve	
			056-059	None	
			060-063	Raw color channels gamma 1	
			064-067	Raw color channels gamma 1.5	
			068-071	Raw color channels gamma 2.2 (Default)	
			072-075	Color Calibration Off (Default)	
			076-079	Color Calibration Factory	
			080-083	Color Calibration Customized	
			084-087	None	
			088-091	Reverse Mapping Off (Default)	
			092-095	Reverse Mapping On	
			096-097	Pixel Map Disabled(Default)	
			098-099	Pixel Map On Circle Mode	
			100-103	Pixel Map On RGBW Mode	
			104-107	Zoom Reposition On(Default)	
			108-111	Zoom Reposition Off	
			112-159	None	
			160-163	Dimmer Fade Off	
			164-167	Dimmer Fade On	
			168-171	PWM frequency 600Hz	
			172-175	PWM frequency 1200Hz	
			176-179	PWM frequency 2000Hz (Default)	
			180-183	PWM frequency 4000Hz	
			184-187	PWM frequency 6000Hz	
			188-191	PWM frequency 25000Hz	
			192-195	Display On	
			196-199	Display Off 10s (Default)	
			200-203	Display Off 20s	
			204-207	Display Off 30s	
			208-253	None	
			254-255	Default function recall	
BACKGR	10	RESET	000-025	No Function	
			026-076	Zoom Reset (Hold 5S)	
			077-127	Pan / Tilt Reset (Hold 5S)	
			128-255	Complete Reset (Hold 5S)	
BACKGR	11	Red	000-255		

6.4.7 DMX Chart

OUND	12	Green	000-255		
	13	Blue	000-255		
	14	White	000-255		
	15	CTO	000-009 010-255	OFF CTO 10000K~2800K	
	16	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
	17	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	18	Dimmer	000-255		
	19	Red	000-255		
	20	Green	000-255		
SHAPE	21	Blue	000-255		
	22	White	000-255		
	23	CTO	000-004 005-255	OFF CTO 10000K~2800K	
	24	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
	25	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	26	Dimmer	000-255		
	27	Shape Mode	000-005 006-130 131-255	Normal Static Dynamic	After the pixel engine is turned on, the pixel channel is available when the Shape Mode is set to Normal.
	28	Shape Selection	000-007 008-015 016-023 024-232	Effect 1 Effect 2 Effect 3 ...	

6.4.8 DMX Chart

			233-240 241-248 249-255	Effect 31 Effect 32 Effect 33	
	29	Indexing/speed	000-255 000-124 125-130 131-255	Indexing (Static Mode) (Dynamic Mode) Speed from fast to slow, forward Stop Speed from slow to fast, backward	
	30	Fade/Wake	000-005 006-130 131-255	Off Fade (From fast to slow) Wake (From fast to slow)	
	31	Transition	000-255		
	PIXELS				
	32	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	After the pixel engine is turned on, the pixel channel is available when the Shape Mode is set to Normal.
	33	Dimmer	000-255		
	34	CTO	000-004 005-255	OFF CTO 10000K~2800K	
	35	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	

Pixel Engine Channel			
1	Red 1	000-255	
2	Green 1	000-255	
3	Blue 1	000-255	
4	White 1	000-255	
5	Red 2	000-255	
6	Green 2	000-255	
7	Blue 2	000-255	
8	White 2	000-255	
...	...	...	
...	...	...	
41	Red 11	000-255	
42	Green 11	000-255	
43	Blue 11	000-255	
44	White 11	000-255	
45	Red 12	000-255	
46	Green 12	000-255	
47	Blue 12	000-255	
48	White 12	000-255	

6.4.9 DMX Chart

Basic Pixel 61				
1	PAN	000-255		
2	PAN Fine	000-255		
3	TILT	000-255		
4	TILT Fine	000-255		
5	ZOOM	000-255	From wide to narrow beam	
6	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
7	Dimmer	000-255		
8	Dimmer Fine	000-255		
9	CTO	000-009 010-255	OFF CTO 10000K-2800K	
10	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
11	Dimmer Fade	000-255	Fast to Slow	
12	FUNCTION	000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve None Raw color channels gamma 1 Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory Color Calibration Customized None	

6.4.10 DMX Chart

		088-091	Reverse Mapping Off (Default)	
		092-095	Reverse Mapping On	
		096-097	Pixel Map Disabled(Default)	
		098-099	Pixel Map On Circle Mode	
		100-103	Pixel Map On RGBW Mode	
		104-107	Zoom Reposition On(Default)	
		108-111	Zoom Reposition Off	
		112-159	None	
		160-163	Dimmer Fade Off	
		164-167	Dimmer Fade On	
		168-171	PWM frequency 600Hz	
		172-175	PWM frequency 1200Hz	
		176-179	PWM frequency 2000Hz (Default)	
		180-183	PWM frequency 4000Hz	
		184-187	PWM frequency 6000Hz	
		188-191	PWM frequency 25000Hz	
		192-195	Display On	
		196-199	Display Off 10s (Default)	
		200-203	Display Off 20s	
		204-207	Display Off 30s	
		208-253	None	
		254-255	Default function recall	
13	RESET	000-025	No Function	
		026-076	Zoom Reset (Hold 5S)	
		077-127	Pan / Tilt Reset (Hold 5S)	
		128-255	Complete Reset (Hold 5S)	
14	Red 1	000-255		
15	Green 1	000-255		
16	Blue 1	000-255		
17	White 1	000-255		
18	Red 2	000-255		
19	Green 2	000-255		
20	Blue 2	000-255		
21	White 2	000-255		
...	...	...		
...	...	...		
54	Red 11	000-255		
55	Green 11	000-255		
56	Blue 11	000-255		
57	White 11	000-255		
58	Red 12	000-255		
59	Green 12	000-255		
60	Blue 12	000-255		
61	White 12	000-255		

After the pixel engine is turned on, the pixel channel is available when the Shape Mode is set to Normal.

Standard Pixel -84

6.4.11 DMX Chart

MAIN	1	PAN	000-255		
	2	PAN Fine	000-255		
	3	TILT	000-255		
	4	TILT Fine	000-255		
	5	ZOOM	000-255	From wide to narrow beam	
	6	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	7	Dimmer	000-255		
	8	Dimmer Fine	000-255		
	9	FUNCTION	000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087 088-091 092-095 096-097 098-099 100-103 104-107 108-111 112-159	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve None Raw color channels gamma 1 Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory Color Calibration Customized None Reverse Mapping Off (Default) Led Reverse Mapping On Led Pixel Map Disabled(Default) Pixel Map On Circle Mode Pixel Map On RGBW Mode Zoom Reposition On(Default) Zoom Reposition Off None	HOLD 3S and Save

6.4.12 DMX Chart

			160-163 Dimmer Fade Off 164-167 Dimmer Fade On 168-171 PWM frequency LED=600Hz 172-175 PWM frequency LED=1200Hz 176-179 PWM frequency LED=2000Hz (Default) 180-183 PWM frequency LED=4000Hz 184-187 PWM frequency LED=6000Hz 188-191 PWM frequency LED=25000Hz 192-195 Display On 196-199 Display Off 10s (Default) 10 200-203 Display Off 20s 20 204-207 Display Off 30s 30 208-253 None 254-255 Default function recall	
	10	RESET	000-025 No Function 026-076 Zoom Reset (Hold 5S) 077-127 Pan / Tilt Reset (Hold 5S) 128-255 Complete Reset (Hold 5S)	
BACKGROUND	11	Red	000-255	
	12	Red Fine	000-255	
	13	Green	000-255	
	14	Green Fine	000-255	
	15	Blue	000-255	
	16	Blue Fine	000-255	
	17	White	000-255	
	18	White Fine	000-255	
	19	CTO	000-009 OFF 010-255 CTO 10000K~2800K	
	20	Tint	000-127 Red Shift 128-128 Off 129-255 Green Shift	
	21	Dimmer Fade	000-255 Fast to Slow	
	22	Strobe	000-003 Light OFF 004-103 Strobe from low (1Hz) to fast (25Hz) 104-107 Light ON 108-207 Pulsation from slow (0.5 Hz) to fast (25 Hz) 208-212 Light ON 213-225 Random Slow Strobe 226-238 Random Medium Strobe 239-251 Random Fast Strobe 252-255 Light ON	
	23	Dimmer	000-255	
SHAPE	24	Red	000-255	
	25	Green	000-255	

6.4.13 DMX Chart

	26	Blue	000-255		
	27	White	000-255		
	28	CTO	000-009 010-255	OFF CTO 10000K~2800K	
	29	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
	30	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	31	Dimmer	000-255		
	32	Shape Mode	000-005 006-130 131-255	Normal Static Dynamic	
	33	Shape Selection	000-007 008-015 016-023 024-232 233-240 241-248 249-255	Effect 1 1 Effect 2 2 Effect 3 3 ... Effect 31 31 Effect 32 32 Effect 33 33	
	34	Indexing/speed /	000-255 000-124 125-130 131-255	Indexing (Static Mode) (Dynamic Mode) Speed from fast to slow, forward Stop Speed from slow to fast, backward	
	35	Fade/Wake	000-005 006-130 131-255	Off Fade (From fast to slow) Wake (From fast to slow)	
	36	Transition	000-255		
	37	Red 1	000-25 5		Shape ModeNormal
	38	Green 1	000-255		
	39	Blue 1	000-255		
	40	White 1	000-255		
	41	Red 2	000-255		
	42	Green 2	000-255		
	43	Blue 2	000-255		

6.4.14 DMX Chart

	44	White 2	000-255		
	...	...	...		
	...	...	...		
	77	Red 11	000-255		
	78	Green 11	000-255		
	79	Blue 11	000-255		
	80	White 11	000-255		
	81	Red 12	000-255		
	82	Green 12	000-255		
	83	Blue 12	000-255		
	84	White 12	000-255		

Advanced Pixel -83 ()					
MAIN	1	PAN	000-255		
	2	PAN Fine	000-255		
	3	TILT	000-255		
	4	TILT Fine	000-255		
	5	ZOOM	000-255	From wide to narrow beam	
	6	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	7	Dimmer	000-255		
	8	Dimmer Fine	000-255		
	9	FUNCTION	000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve S None Raw color channels gamma 1 Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory	HOLD 3S and Save

6.4.15 DMX Chart

			080-083 Color Calibration Customized 084-087 None 088-091 Reverse Mapping Off (Default) Led 092-095 Reverse Mapping On Led 096-097 Pixel Map Disabled(Default) 098-099 Pixel Map On Circle Mode 100-103 Pixel Map On RGBW Mode 104-107 Zoom Reposition On(Default) 108-111 Zoom Reposition Off 112-159 None 160-163 Dimmer Fade Off 164-167 Dimmer Fade On 168-171 PWM frequency LED=600Hz 172-175 PWM frequency LED=1200Hz 176-179 PWM frequency LED=2000Hz (Default) 180-183 PWM frequency LED=4000Hz 184-187 PWM frequency LED=6000Hz 188-191 PWM frequency LED=25000Hz 192-195 Display On 196-199 Display Off 10s (Default) 10 200-203 Display Off 20s 20 204-207 Display Off 30s 30 208-253 None 254-255 Default function recall	
	10	RESET	000-025 No Function 026-076 Zoom Reset (Hold 5S) 077-127 Pan / Tilt Reset (Hold 5S) 128-255 Complete Reset (Hold 5S)	
BACKGROUND	11	Red	000-255	
	12	Green	000-255	
	13	Blue	000-255	
	14	White	000-255	
	15	CTO	000-004 OFF 005-255 CTO 10000K~2800K	
	16	Tint	000-127 Red Shift 128-128 Off 129-255 Green Shift	
	17	Strobe	000-003 Light OFF 004-103 Strobe from low (1Hz) to fast (25Hz) 104-107 Light ON 108-207 Pulsation from slow (0.5 Hz) to fast (25 Hz) 208-212 Light ON 213-225 Random Slow Strobe 226-238 Random Medium Strobe 239-251 Random Fast Strobe 252-255 Light ON	
	18	Dimmer	000-255	
	19	Red	000-255	
SHAPE	20	Green	000-255	

6.4.16 DMX Chart

	21	Blue	000-255		
	22	White	000-255		
	23	CTO	000-004 005-255	OFF CTO 10000K-2800K	
	24	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
	25	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	26	Dimmer	000-255		
	27	Shape Mode	000-005 006-130 131-255	Normal Static Dynamic	
	28	Shape Selection	000-007 008-015 016-023 024-232 233-240 241-248 249-255	Effect 1 1 Effect 2 2 Effect 3 3 ... Effect 31 31 Effect 32 32 Effect 33 33	
	29	Indexing/speed /	000-255 000-124 125-130 131-255	Indexing (Static Mode) (Dynamic Mode) Speed from fast to slow, forward Stop Speed from slow to fast, backward	
	30	Fade/Wake	000-005 006-130 131-255	Off Fade (From fast to slow) Wake (From fast to slow)	
	31	Transition	000-255		
PIXELS	32	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light ON	
	33	Dimmer	000-255		
	34	CTO	000-004 005-255	OFF CTO 10000K-2800K	

6.4.17 DMX Chart

	35	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
Pixel	36	Green 1	000-255		Shape ModeNormal
	37	Blue 1	000-255		
	38	White 1	000-255		
	39	Red 2	000-255		
	40	Green 2	000-255		
	41	Blue 2	000-255		
	42	White 2	000-255		
	...	...	...		
	...	...	...		
	76	Red 11	000-255		
	77	Green 11	000-255		
	78	Blue 11	000-255		
	79	White 11	000-255		
	80	Red 12	000-255		
	81	Green 12	000-255		
	82	Blue 12	000-255		
	83	White 12	000-255		

7.ERROR INFORMATION

Make sure the area below the installation place is free from unwanted persons during setup.

- Switch off the unit, unplug the main cable and wait until the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, Fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	• No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board	• Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board
General low light intensity	• Dirty lens assembly • Misaligned lens assembly	• Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	• No power • Loose or damaged power cord • Faulty internal power supply	• Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	• Wrong DMX addressing • Damaged DMX cables • Bouncing signals	• Check control panel and unit addressing • Check DMX cables • Install terminator as suggested

Contact an authorised service centre in case of technical problems that are not reported in the table, or problems cannot be resolved by procedure given in the table



EKINC.

Address: NO.55 Zhongzhun Road, Cuiheng New District, Zhongshan City, Guangdong Province

Phone: 0086 (0760) 88280099

www.eklights.com